

SEARCH REQUEST FORM

Scientific and Technical Information Center

58142

Requester's Full Name: PATEL SUDHAKER Examiner #: 77618 Date: 1/11/02
 Art Unit: 1/24 Phone Number 30 84709 Serial Number: 09839289
 Mail Box and Bldg/Room Location: CM1 4E17 Results Format Preferred (circle): PAPER DISK E-MAIL

4E12

If more than one search is submitted, please prioritize searches in order of need.

 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

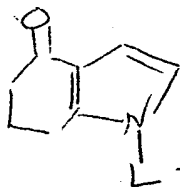
SYNTHESIS & METHODS OF USE OF TETRAHYDROINDOLONE
 Title of Invention: ANALOGUES & DERIVATIVES

Inventors (please provide full names):

DAVID B. FICK et al

Point of Contact:
Susan HanleyEarliest Priority Filing Date: 4/20/2001Technical Info. Specialist
CM1 12C14 Tel: 305-4053

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

L = alkyl₁₋₆ or cycloalkyl

Need info @ groups & method of

use as NOOTROPIC BIOLOGICAL

ACTIVITY for treating Alzheimer's disease
multiple sclerosis, stroke etc.

Copy of claims enclosed

THX
for
1624

(S110)

RECEIVED
JAN 14 2002

BEST AVAILABLE COPY

STAFF USE ONLY

Searcher: RUHL/HANLEYSearcher Phone #: 605-1155

Searcher Location: _____

Date Searcher Picked Up: 1/14/02Date Completed: 1/16/02

Searcher Prep & Review Time: _____

Clerical Prep Time: _____

Online Time: _____

Type of Search

NA Sequence (#) _____

AA Sequence (#) _____

Structure (#) _____

Bibliographic _____

Litigation _____

Fulltext _____

Patent Family _____

Other _____

Vendors and cost where applicable

STN _____

Dialog _____

Questel/Orbit _____

Dr.Link _____

Lexis/Nexis _____

Sequence Systems _____

WWW/Internet _____

Other (specify) _____

=> d all

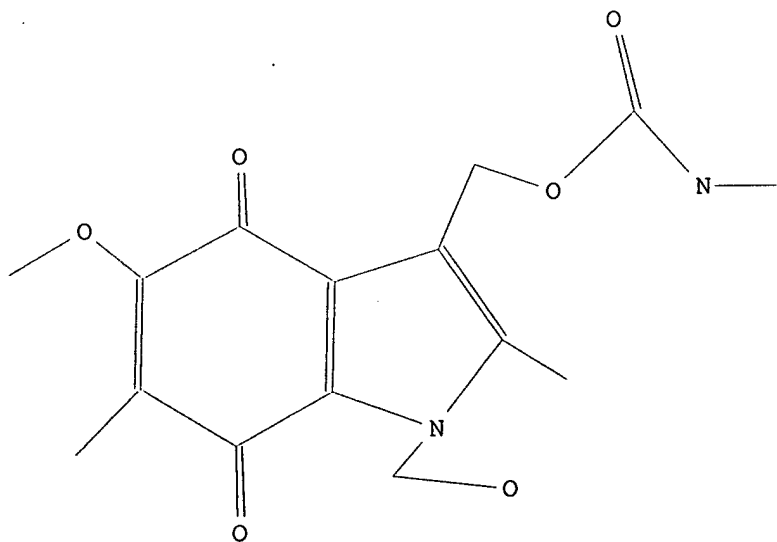
L28 ANSWER 1 OF 1 COPYRIGHT 2002 BEILSTEIN CDS MDLI

Beilstein Reg. No. (BRN): 1505538 Beilstein
Molecular Formula (MF): C15 H18 N2 O6
Autonom Name (AUN): methyl-carbamic acid 1-hydroxymethyl-5-methoxy-2,6-dimethyl-4,7-dioxo-4,7-dihydro-1H-indol-3-ylmethyl ester
Beilstein Reference (SO): 5-21
CAS Reg. No. (RN): 5904-30-3
Beilstein Pref. RN (BPR): 5904-30-3
Formula Weight (FW): 322.32
Lawson Number (LN): 26215; 2817; 1762; 689; 289

Ring System Data:

Number of Rings (CNR): 2
Ring Systems (CNRS): 1
~~Diff. Ring Systems (CNDRS): 1~~
Ring Heteros (CNRH): 1
Acyclic Heteros (CNAH): 7

| Beilstein Ring Index (BRIX) | Ring System Formula (RF) | BRIX Count |
|--------------------------------|-----------------------------|---------------|
| 9.2.5-1.2-3.10 | C8N | 1 |



Preparation:

PRE

Reference(s):

1. Patent: Amer. Cyanamid Co., BE 653057 1963
Chem. Abstr., 64, <1966>, 15845e

Melting Point:

| Value | Ref. |
|-------|------|
| (MP) | |
| (Cel) | |

=====+=====

153.00 - 154.00 | 1

Reference(s):

1. Patent: Amer. Cyanamid Co., BE 653057 1963
Chem. Abstr., 64, <1966>, 15845e

=> d all

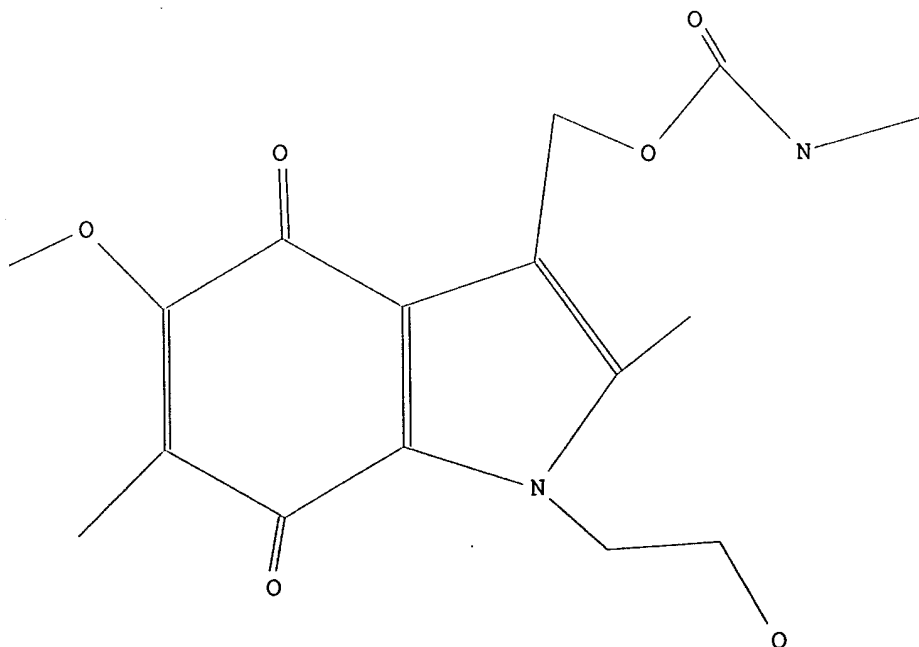
L24 ANSWER 1 OF 3 COPYRIGHT 2002 BEILSTEIN CDS MDLI

Beilstein Reg. No. (BRN): 1553376 Beilstein
Molecular Formula (MF): C16 H20 N2 O6
Chemical Name (CN): 1-(2-hydroxy-ethyl)-5-methoxy-2,6-dimethyl-3-(methylcarbamoyloxy-methyl)-indole-4,7-dione
Autonom Name (AUN): methyl-carbamic acid 1-(2-hydroxy-ethyl)-5-methoxy-2,6-dimethyl-4,7-dioxo-4,7-dihydro-1H-indol-3-ylmethyl ester
Beilstein Reference (SO): 5-21-13-00464
CAS Reg. No. (RN): 10087-98-6
Beilstein Pref. RN (BPR): 10087-98-6
Formula Weight (FW): 336.34
Lawson Number (LN): 26215; 3122; 2817; 1762; 289

Ring System Data:

Number of Rings (CNR): 2
Ring Systems (CNRS): 1
Diff. Ring Systems (CNDRS): 1
Ring Heteros (CNRH): 1
Acyclic Heteros (CNAH): 7

| Beilstein Ring Index (BRIX) | Ring System Formula (RF) | BRIX Count |
|--------------------------------|-----------------------------|---------------|
| 9.2.5-1.2-3.10 | C8N | 1 |



Preparation:

PRE

Reference(s):

1. Allen; Weiss, J.Med.Chem., 10 <1967>, 23,29, CODEN: JMCMAR
2. Patent: American Cyanamid Co., US 3265698 1963
Chem. Abstr., 65, <1966>, 15330c

Melting Point:

| Value | Solv. | Ref. |
|-------------------|-------------------|------|
| (MP) | (.SOL) | |
| (Cel) | | |
| =====+=====+===== | | |
| 153.00 - 154.00 | CH2Cl2, petroleum | 1 |
| | ether | |
| 153.00 - 154.00 | | 2 |

Reference(s):

1. Allen; Weiss, J.Med.Chem., 10 <1967>, 23,29, CODEN: JMCMAR
 2. Patent: American Cyanamid Co., US 3265698 1963
Chem. Abstr., 65, <1966>, 15330c
-

Infrared Maximum:

IRM

Reference(s):

1. Allen; Weiss, J.Med.Chem., 10 <1967>, 23,29, CODEN: JMCMAR

Electronic Absorption Maximum:

EAM

Reference(s):

1. Allen; Weiss, J.Med.Chem., 10 <1967>, 23,29, CODEN: JMCMAR

CTUNCH Unchecked Data: NMR

Reference(s):

1. Allen; Weiss, J.Med.Chem., 10 <1967>, 23,29, CODEN: JMCMAR

=> d his

(FILE 'HOME' ENTERED AT 09:48:00 ON 16 JAN 2002)

FILE 'LREGISTRY' ENTERED AT 09:48:36 ON 16 JAN 2002

L1 STR
 L2 SCREEN 1839 AND 1994 AND 2004
 L3 SCREEN 2026 OR 2016 OR 2021 OR 1938
 L4 0 S L1 AND L2 NOT L3

FILE 'REGISTRY' ENTERED AT 10:09:58 ON 16 JAN 2002

L5 0 S L1 AND L2 NOT L3
 L6 STR L1
 L7 STR L1
 L8 50 S L7
 L9 1711 S L7 FULL *first subset created*

SAVE L9 SUD289P/A

L10 STR L1

L11 STR L10

L12 2 S L11 SSS SAM SUB=L9

L13 ~~29 S L11 SSS FUL SUB=L9~~ *second subset created*

SAVE L13 SUD289/A

L14 STR L11

L15 ~~19 S L14 SSS FUL SUB=L13~~ *19 compds. meet claims*

SAVE L15 SUD289A/A

L16 ~~10 S L13 NOT L15~~ *10 compds do not meet claims - how terminal Carboxy*

FILE 'HCAPLUS' ENTERED AT 11:53:51 ON 16 JAN 2002

L17 11 S L15 *11 cits from L15 compds.*
 L18 5 S L16 *5 cits from L16 compds.*

FILE 'CAOLD' ENTERED AT 12:00:23 ON 16 JAN 2002

L19 0 S L15 *no citations*

FILE 'BEILSTEIN' ENTERED AT 12:00:55 ON 16 JAN 2002

L20 22 S L14 FULL *22 compds. from L14*L21 19 S L20/COM *19 compds. from L20*

L22 16 S L15

L23 3 S L21 NOT L22

L24 3 S L23 AND PRE/FA *only 1st compd displayed due to high display cost*

L25 420 S WEISS?/AU AND ALLEN?/AU AND PY=1967

L26 2 S L24 AND L25

L27 1 S L24 NOT L26

L28 1 S L27 AND PRE/FA *one compd. displayed*

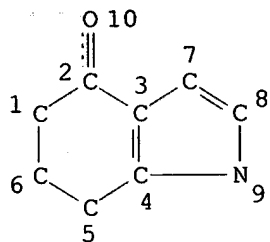
Structure for HCAPLUS & CAOLD

PATEL 09/839289

16/01/2002

=> d que 117

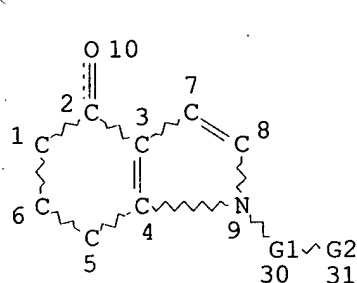
STR 1st subset created is based on This str.



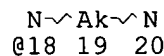
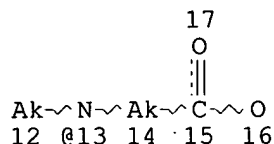
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 10

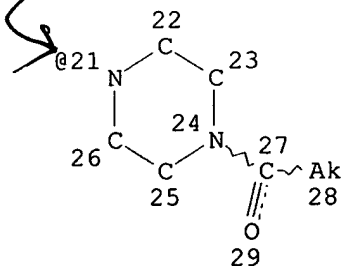
STEREO ATTRIBUTES: NONE
L9 1711 SEA FILE=REGISTRY SSS FUL L7
L11 STR 2nd subset str.



Ak @11



G2



VAR G1=11/CB
VAR G2=OH/NH2/13/18/21
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

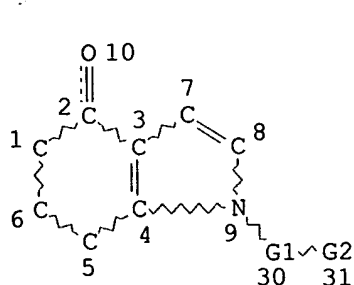
RSPEC I

NUMBER OF NODES IS 31

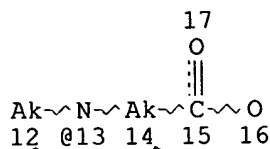
STEREO ATTRIBUTES: NONE

L13 29 SEA FILE=REGISTRY SUB=L9 SSS FUL L11

L14 STR *Final subset search*

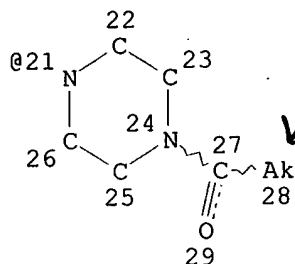


Ak @11



N~Ak~N
@18 19 20

All Ak's are not substituted.



VAR G1=11/CB

VAR G2=OH/NH2/13/18/21

NODE ATTRIBUTES:

CONNECT IS E2 RC AT 11

CONNECT IS E1 RC AT 12

CONNECT IS E2 RC AT 14

CONNECT IS E2 RC AT 19

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 31

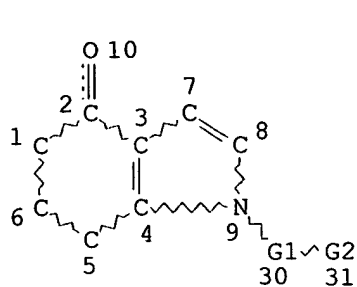
STEREO ATTRIBUTES: NONE

L15 19 SEA FILE=REGISTRY SUB=L13 SSS FUL L14

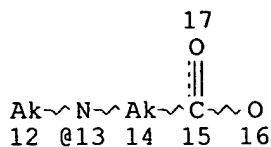
L17 11 SEA FILE=HCAPLUS L15

=> d que 120
L14

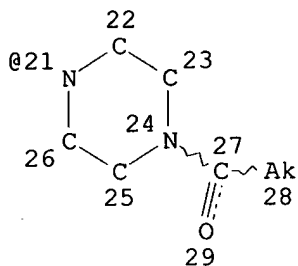
STR



Ak @11



N~Ak~N
@18 19 20



VAR G1=11/CB
VAR G2=OH/NH2/13/18/21
NODE ATTRIBUTES:
CONNECT IS E2 RC AT 11
CONNECT IS E1 RC AT 12
CONNECT IS E2 RC AT 14
CONNECT IS E2 RC AT 19
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 31

STEREO ATTRIBUTES: NONE
L20 22 SEA FILE=BEILSTEIN SSS FUL L14

=> d ibib abs hitstr 1-11

L17 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1997:479331 HCAPLUS
 DOCUMENT NUMBER: 127:99527
 TITLE: Oxidative hair dye compositions containing
 n-substituted 4-hydroxy indoline derivatives
 INVENTOR(S): Terranova, Eric; Fadli, Aziz; Lagrange, Alain
 PATENT ASSIGNEE(S): Oreal S. A., Fr.
 SOURCE: Eur. Pat. Appl., 19 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|----------|
| EP 780118 | A1 | 19970625 | EP 1996-402297 | 19961029 |
| EP 780118 | B1 | 19971229 | | |

R: DE, ES, FR, GB, IT

| | | | | |
|-------------|----|----------|----------------|----------|
| FR 2742047 | A1 | 19970613 | FR 1995-14372 | 19951206 |
| FR 2742047 | B1 | 19980116 | | |
| CN 1189820 | A | 19980805 | CN 1996-195180 | 19960626 |
| ES 2113769 | T3 | 19980501 | ES 1996-402297 | 19961029 |
| JP 09183716 | A2 | 19970715 | JP 1996-325758 | 19961205 |
| JP 2996625 | B2 | 20000111 | | |
| US 5755829 | A | 19980526 | US 1996-761756 | 19961205 |
| US 6002018 | A | 19991214 | US 1998-14622 | 19980128 |

PRIORITY APPLN. INFO.: FR 1995-14372 A 19951206
 US 1996-761756 A3 19961205

OTHER SOURCE(S): MARPAT 127:99527

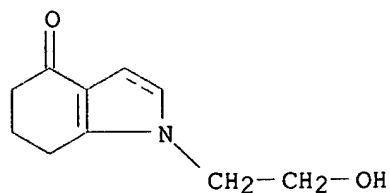
AB Oxidative hair dye comps. contain n-substituted 4-hydroxy indoline
 derivs. (Markush structure given). A soln. of 8.85 g 4-hydroxy-1-N-
 (.beta.-hydroxyethyl)indole (prepn. given) in 40 mL of acetic acid was
 stirred with 1.9 g of sodium cyanoborohydride at 30.degree. for 30 min,
 then the reaction mixt. was poured into 200 g water at pH = 7.5 and the
 ppt. thus obtained was filtered and dried to obtain 7.75 g
 4-hydroxy-1-N-(.beta.-hydroxyethyl)indoline (I). A hair dye prepn.
 contained I 0.895, paraphenylenediamine 0.540, water and excipient q.s.
 100 g. The hair dye prepn. is mixed with equal amt. of 20 vol. hydrogen
 peroxide and applied to the hair.

IT 186963-73-5P 186963-74-6P

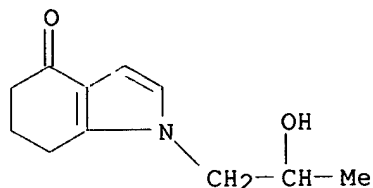
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (oxidative hair dye comps. contg. n-substituted 4-hydroxy indoline
 derivs.)

RN 186963-73-5 HCAPLUS

CN 4H-Indol-4-one, 1,5,6,7-tetrahydro-1-(2-hydroxyethyl)- (9CI) (CA INDEX
 NAME)



RN 186963-74-6 HCAPLUS
 CN 4H-Indol-4-one, 1,5,6,7-tetrahydro-1-(2-hydroxypropyl)- (9CI) (CA INDEX NAME)



L17 ANSWER 2 OF 11 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1997:168570 HCAPLUS

DOCUMENT NUMBER: 126:185981

TITLE: Preparation of N-hydroxyalkyl-4-hydroxyindoles as oxidative hair dye components

INVENTOR(S): Terranova, Eric; Fadli, Aziz; Lagrange, Alain

PATENT ASSIGNEE(S): L'Oreal S. A., Fr.

SOURCE: Eur. Pat. Appl., 20 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

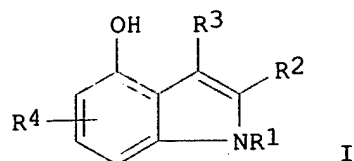
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|-------------|
| EP 754681 | A1 | 19970122 | EP 1996-401413 | 19960626 |
| EP 754681 | B1 | 19980304 | | |
| R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE | | | | |
| FR 2736640 | A1 | 19970117 | FR 1995-8566 | 19950713 |
| FR 2736640 | B1 | 19970822 | | |
| CA 2222312 | AA | 19970130 | CA 1996-2222312 | 19960626 |
| WO 9703049 | A1 | 19970130 | WO 1996-FR996 | 19960626 |
| W: BR, CA, CN, HU, JP, KR, MX, PL, RU | | | | |
| AT 163640 | E | 19980315 | AT 1996-401413 | 19960626 |
| ES 2117474 | T3 | 19980801 | ES 1996-401413 | 19960626 |
| JP 10512282 | T2 | 19981124 | JP 1996-505543 | 19960626 |
| BR 9609329 | A | 19990525 | BR 1996-9329 | 19960626 |
| JP 3095419 | B2 | 20001003 | JP 1997-505543 | 19960626 |
| US 5704948 | A | 19980106 | US 1996-678981 | 19960712 |
| US 5869692 | A | 19990209 | US 1997-932468 | 19970918 |
| PRIORITY APPLN. INFO.: | | | FR 1995-8566 | A 19950713 |
| | | | WO 1996-FR996 | W 19960626 |
| | | | US 1996-678981 | A3 19960712 |

OTHER SOURCE(S): MARPAT 126:185981

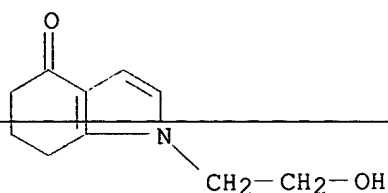
GI



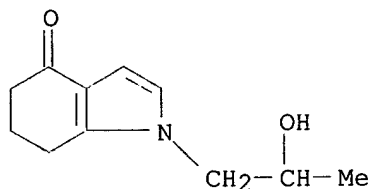
AB Title compds. (I; R1 = hydroxyalkyl, alkoxyalkyl, aminoalkyl, etc.; R2,R3 = H, halo, alkyl, CO2H, alkoxyacarbonyl, CHO; R4 = H, halo, alkyl, alkoxy, etc.) were prepd. Thus, 4-oxo-4,5,6,7-tetrahydrobenzofuran was cyclocondensed with H2NCH2CH2OH and the product dehydrogenated to give I (R1 = CH2CH2OH, R2-R4 = H). Data for activity of I were given.

IT 186963-73-5P 186963-74-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of N-hydroxyalkyl-4-hydroxyindoles as oxidative hair dye components)

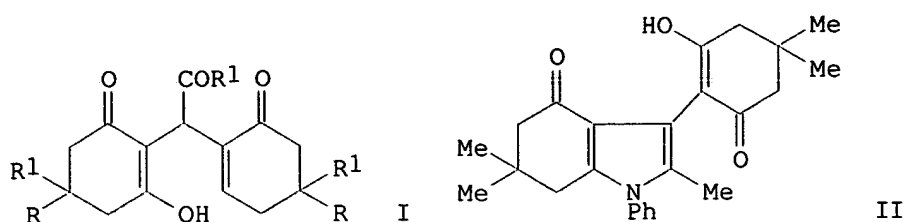
RN 186963-73-5 HCAPLUS
 CN 4H-Indol-4-one, 1,5,6,7-tetrahydro-1-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



RN 186963-74-6 HCAPLUS
 CN 4H-Indol-4-one, 1,5,6,7-tetrahydro-1-(2-hydroxypropyl)- (9CI) (CA INDEX NAME)



L17 ANSWER 3 OF 11 HCAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1989:594507 HCAPLUS
 DOCUMENT NUMBER: 111:194507
 TITLE: Synthesis and oral hypoglycemic properties of
 3-(1-oxo-3-hydroxy-2-cyclohexen-2-yl)-4-oxo-4,5,6,7-
 tetrahydroindoles
 AUTHOR(S): Nagarajan, Kuppuswamy; Shenoy, Sharada J.; Talwalker,
 Purnachandra K.
 CORPORATE SOURCE: Res. Cent., Hindustan Ciba-Geigy Ltd., Bombay, 400
 063, India
 SOURCE: Indian J. Chem., Sect. B (1989), 28B(4), 326-32
 CODEN: IJSBDB; ISSN: 0376-4699
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 111:194507
 GI



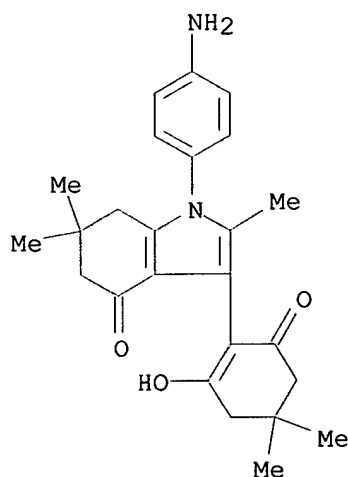
AB Reaction of cyclohexane-1,3-diones with glyoxal, methylglyoxal, or phenylglyoxal afford bis -derivs. I (R, R1 = H, Me; R2 = H, Me, Ph) which are transformed to the title compds. by condensation with amines. Several of these are found to have activity in the fasted, glucose-primed rats. While many are as potent as tolbutamide, the activity of some is comparable to that of glybenclamide. Structure-activity relationships are discussed. Among these, cyclohexenylindole II has been chosen for further development.

IT 123271-86-3P 123271-89-6P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (prepn. and hypoglycemic activity of)

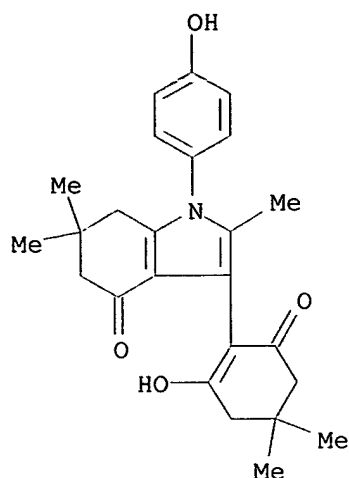
RN 123271-86-3 HCAPLUS

CN 4H-Indol-4-one, 1-(4-aminophenyl)-1,5,6,7-tetrahydro-3-(2-hydroxy-4,4-dimethyl-6-oxo-1-cyclohexen-1-yl)-2,6,6-trimethyl- (9CI) (CA INDEX NAME)



RN 123271-89-6 HCAPLUS

CN 4H-Indol-4-one, 1-(4-aminophenyl)-1,5,6,7-tetrahydro-3-(2-hydroxy-4,4-dimethyl-6-oxo-1-cyclohexen-1-yl)-2,6,6-trimethyl- (9CI) (CA INDEX NAME)



L17 ANSWER 4 OF 11 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1989:457475 HCAPLUS

DOCUMENT NUMBER: 111:57475

TITLE: Synthesis and oral hypoglycemic properties of 4-oxo-4,5,6,7-tetrahydroindole-3-acetic acids

AUTHOR(S): Nagarajan, Kuppuswamy; Talwalker, Purnachand K.; Goud, A. Nagana; Shah, Rashmi K.; Shenoy, Sharada J.; Desai, Narasimha D.

CORPORATE SOURCE: Res. Cent., Hindustan Ciba-Geigy Ltd., Bombay, 400 063, India

SOURCE: Indian J. Chem., Sect. B (1988), 27B(12), 1113-23

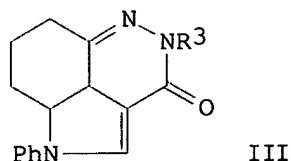
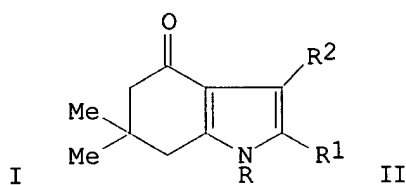
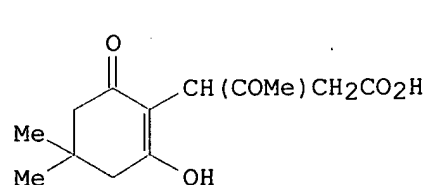
CODEN: IJSBDB; ISSN: 0376-4699

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 111:57475

GI



AB Condensation of .beta.-acetyl-2-hydroxy-4,4-dimethyl-6-oxo-1-cyclohexene-1-propionic acid (I) with NH4OAc and primary amines affords tetrahydroindole-3-acetic acids II (R = alkyl, aryl, aralkyl; R1 = Me, R2 = CH2CO2H), while another dimeric deriv. serves as starting material for isomeric indole-2-acetic acids II (R = alkyl, R1 = CH2CO2H, R2 = H).

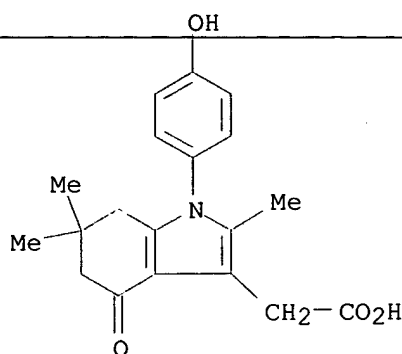
4-Oxotetrahydroindole-2-carboxylic acids II (R = Ph, CH₂CHMe₂, R₁ = CO₂H, R₂ = Me) and 3-carboxylic acids II (R = Ph, 4-FC₆H₄, R₁ = H, R₂ = CO₂H), are obtained from the corresponding benzofurans. Some of the 3-carboxylic acid esters are transformed to tricyclic compds. like III [R₃ = H, Me₂N(CH₂)₃, Et₂NCH₂CH₂]. Good oral hypoglycemic activity in normal rats is shown generally by the 3-acetic acids, among which C 8778-GO and C 9001-GO (II, R = Bu, CH₂CHMe₂, R₁ = Me, R₂ = CH₂CO₂H) are most active. These two acids are also active in streptozotocin-induced diabetic rats and have been investigated extensively. Structure-activity relationships are discussed.

IT 121626-09-3P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and hypoglycemic activity of)

RN 121626-09-3 HCAPLUS

CN 1H-Indole-3-acetic acid, 4,5,6,7-tetrahydro-1-(4-hydroxyphenyl)-2,6,6-trimethyl-4-oxo- (9CI) (CA INDEX NAME)

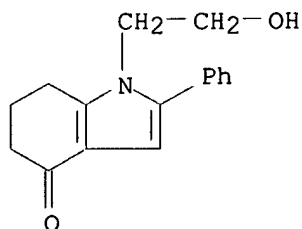


IT 39991-82-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 39991-82-7 HCAPLUS

CN 4H-Indol-4-one, 1,5,6,7-tetrahydro-1-(2-hydroxyethyl)-2-phenyl- (9CI) (CA INDEX NAME)



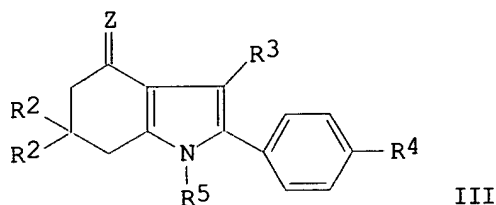
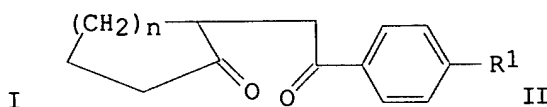
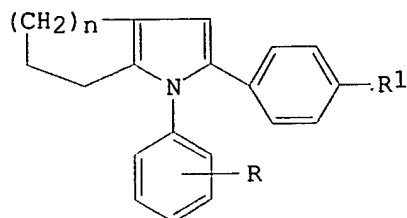
L17 ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1985:437321 HCAPLUS

DOCUMENT NUMBER: 103:37321

TITLE: Antiimplantation agents: part III -
1,2-diaryl-4,5-polymethylenepyrroles and
1,2-diaryl-4-oxo- and 1,2-diaryl-4-hydroxy-4,5,6,7-
tetrahydroindoles

AUTHOR(S): Nagarajan, K.; Talwalker, P. K.; Shah, R. K.; Mehta, S. R.; Nayak, G. V.
 CORPORATE SOURCE: Res. Cent., Hindustan CIBA-GEIGY Ltd., Bombay, 400 063, India
 SOURCE: Indian J. Chem., Sect. B (1985), 24B(1), 98-111
 CODEN: IJSBDB; ISSN: 0376-4699
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 103:37321
 GI



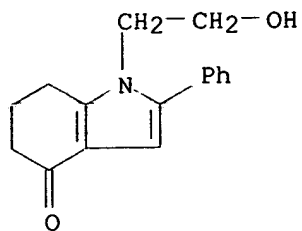
AB Diarylpolymethylenepyrroles I ($n = 1-3$; $R = Cl, OH, F, OMe$; $R_1 = H, Cl$) were prepd. by cyclocondensation of phenacylcycloalkanones II with $RC_6H_4NH_2$. Alkylation of phenols I ($R = OH$) gave ethers I ($R =$ pyrrolidinoethoxy, piperidinoethoxy, morpholinoethoxy, $Et_2NCH_2CH_2O$, etc.). Similarly prepd. were tetrahydroindoles III [$R_2, R_3 = H, Me$; $R_4 = H, Br, Cl, F, NO_2, OMe$, etc.; $R_5 =$ (substituted) Ph, pyridyl, $HOCH_2CH_2$, morpholinopropyl, chlorobenzyl, cyclohexyl; $Z = O$], and some III ($Z = O$) were reduced to give III ($Z = H, OH$). Several compds. exhibited antiimplantation activity in rats, among which the following were effective at a dose of 10 mg/kg orally for 6 days or less: ethers I [$n = 2$, $R = 4-Me_2N(CH_2)_3O$, 4-piperidinopropoxy, $R_1 = H$; $n = 3$, $R = 4$ -pyrrolidinoethoxy, $R_1 = H$ (IV)], oxoindoles III ($R_2 = Me$; $R_3, R_4 = H$; $R_5 = 2-$, 4- FC_6H_4 , 4-pyrrolidinoethoxyphenyl, 4- $NH_2NHC_6H_4$; $Z = O$), hydroxyindoles III [$R_2 = Me$, $R_3, R_4 = H$, $R_5 = H$, 4- FC_6H_4 (C 6924-Go); $R_2, R_3 = Me$, $R_4 = H$, $R_5 = 4-FC_6H_4$; $Z = H, OH$], and the deoxy deriv. III ($R_2-R_5 = Me, H, H, 4-FC_6H_4$, $Z = H_2$) (V). Compds. IV and V (min. $ED_{100} = 1$ mg) and C 6924-Go (min. $ED_{100} = 2$ mg) showed no dissocn. between antiimplantation and estrogenic activities. Detailed studies on C 6924-Go showed that its activity is related to weak estrogenic-antiestrogenic properties. Structure-activity relationships were discussed.

IT 39991-82-7P 68638-92-6P 96757-50-5P
 96757-51-6P

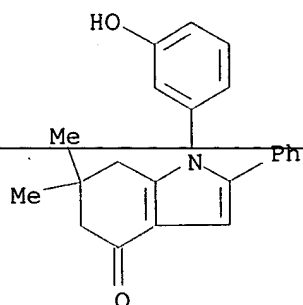
RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and contraceptive activity of)

RN 39991-82-7 HCAPLUS

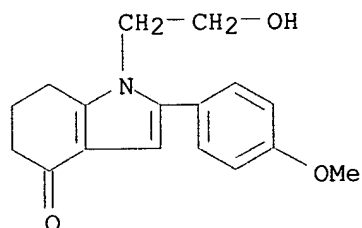
CN 4H-Indol-4-one, 1,5,6,7-tetrahydro-1-(2-hydroxyethyl)-2-phenyl- (9CI) (CA INDEX NAME)



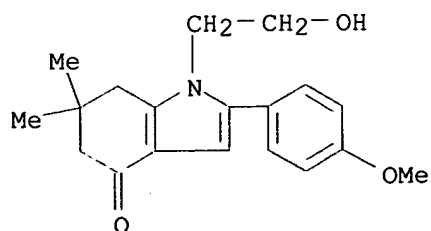
RN 68638-92-6 HCAPLUS
 CN 4H-Indol-4-one, 1,5,6,7-tetrahydro-1-(3-hydroxyphenyl)-6,6-dimethyl-2-phenyl- (9CI) (CA INDEX NAME)



RN 96757-50-5 HCAPLUS
 CN 4H-Indol-4-one, 1,5,6,7-tetrahydro-1-(2-hydroxyethyl)-2-(4-methoxyphenyl)-6,6-dimethyl- (9CI) (CA INDEX NAME)



RN 96757-51-6 HCAPLUS
 CN 4H-Indol-4-one, 1,5,6,7-tetrahydro-1-(2-hydroxyethyl)-2-(4-methoxyphenyl)-6,6-dimethyl- (9CI) (CA INDEX NAME)

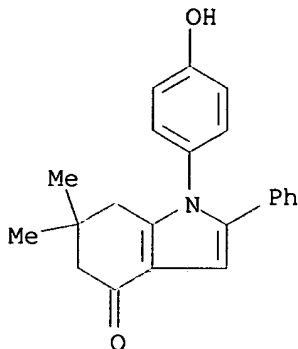


IT 96757-31-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)

(prepn., alkylation, and contraceptive activity of)

RN 96757-31-2 HCAPLUS

CN 4H-Indol-4-one, 1,5,6,7-tetrahydro-1-(4-hydroxyphenyl)-6,6-dimethyl-2-phenyl- (9CI) (CA INDEX NAME)

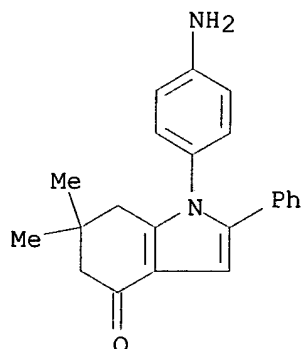


IT 96757-34-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn., diazotization, and contraceptive activity of)

RN 96757-34-5 HCAPLUS

CN 4H-Indol-4-one, 1-(4-aminophenyl)-1,5,6,7-tetrahydro-6,6-dimethyl-2-phenyl- (9CI) (CA INDEX NAME)



L17 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1980:75384 HCAPLUS

DOCUMENT NUMBER: 92:75384

TITLE: Mass spectral fragmentations diagnostic of
1,2-diaryl-6,6-dimethyl-4-oxo-4,5,6,7-
tetrahydroindolesAUTHOR(S): Ramadas, S. R.; Ramana, D. V.; Padmanabhan, S.
CORPORATE SOURCE: Dep. Chem., Indian Inst. Technol., Madras, 600036,
IndiaSOURCE: Indian J. Chem., Sect. B (1978), 16B(12), 1119-21
CODEN: IJSBDB; ISSN: 0376-4699

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The mol. ion (M+) peak is the base peak in all of the title spectra. M+
Undergoes retro-Diels-Alder fragmentation, followed by extensive

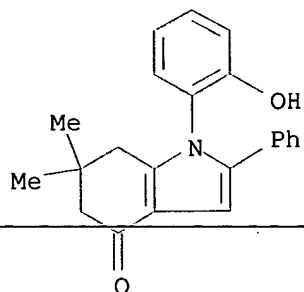
rearrangement to give cyclic ions with concomitant loss of CO or at. H.
The pyrrole moiety in M⁺ decomp. to aryl isocyanide ions in another
diagnostic path.

IT 68638-91-5 68638-92-6 68638-96-0
68638-99-3

RL: PRP (Properties)
(mass spectrum of)

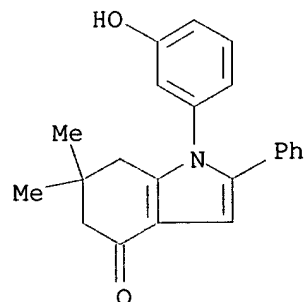
RN 68638-91-5 HCAPLUS

CN 4H-Indol-4-one, 1,5,6,7-tetrahydro-1-(2-hydroxyphenyl)-6,6-dimethyl-2-phenyl- (9CI) (CA INDEX NAME)



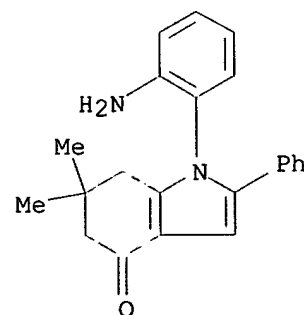
RN 68638-92-6 HCAPLUS

CN 4H-Indol-4-one, 1,5,6,7-tetrahydro-1-(3-hydroxyphenyl)-6,6-dimethyl-2-phenyl- (9CI) (CA INDEX NAME)

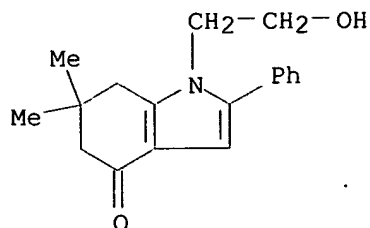


RN 68638-96-0 HCAPLUS

CN 4H-Indol-4-one, 1-(2-aminophenyl)-1,5,6,7-tetrahydro-6,6-dimethyl-2-phenyl- (9CI) (CA INDEX NAME)



RN 68638-99-3 HCAPLUS
 CN 4H-Indol-4-one, 1,5,6,7-tetrahydro-1-(2-hydroxyethyl)-6,6-dimethyl-2-phenyl- (9CI) (CA INDEX NAME)



L17 ANSWER 7 OF 11 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1979:22730 HCAPLUS

DOCUMENT NUMBER: 90:22730

TITLE: Studies on synthesis, chemical and spectroscopic properties of 4-ketotetrahydroindole derivatives

AUTHOR(S): Ramadas, S. R.; Padmanabhan, S.

CORPORATE SOURCE: Dep. Chem., Indian Inst. Technol., Madras, India

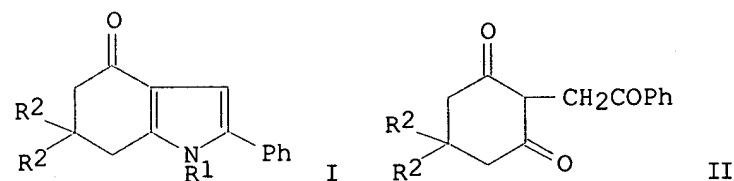
SOURCE: J. Prakt. Chem. (1978), 320(5), 863-72

CODEN: JPCEAO; ISSN: 0021-8383

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



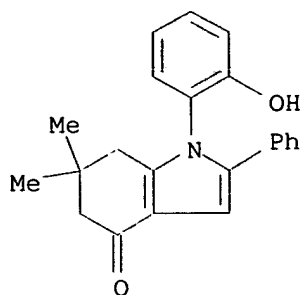
AB Oxotetrahydroindoles I (R1 = Ph, MeOC6H4, m- and p-NO2C6H4, o- and m-HOC6H4, and m- and p-HO2CC6H4, p-EtO2CC6H4, p-tolyl, o-H2NC6H4, benzyl, HOCH2CH2, 2-naphthyl, 6-quinolyl; R2 = H, Me) were prepd. in 62-95% yield by reaction of the phenacyldimedone II with R1NH2. The IR, UV and NMR data for I were tabulated.

IT 68638-91-5P 68638-92-6P 68638-96-0P
 68638-99-3P

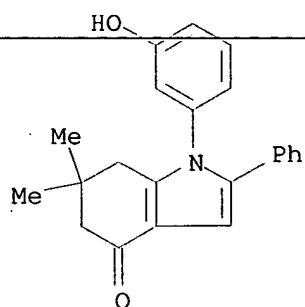
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (prepn. and spectra of)

RN 68638-91-5 HCAPLUS

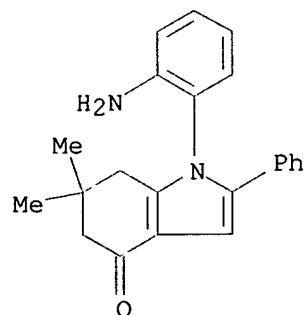
CN 4H-Indol-4-one, 1,5,6,7-tetrahydro-1-(2-hydroxyphenyl)-6,6-dimethyl-2-phenyl- (9CI) (CA INDEX NAME)



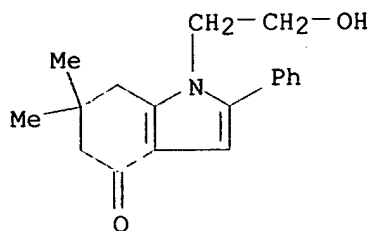
RN 68638-92-6 HCAPLUS
CN 4H-Indol-4-one, 1,5,6,7-tetrahydro-1-(3-hydroxyphenyl)-6,6-dimethyl-2-phenyl- (9CI) (CA INDEX NAME)



RN 68638-96-0 HCAPLUS
CN 4H-Indol-4-one, 1-(2-aminophenyl)-1,5,6,7-tetrahydro-6,6-dimethyl-2-phenyl- (9CI) (CA INDEX NAME)



RN 68638-99-3 HCAPLUS
CN 4H-Indol-4-one, 1,5,6,7-tetrahydro-1-(2-hydroxyethyl)-6,6-dimethyl-2-phenyl- (9CI) (CA INDEX NAME)



L17 ANSWER 8 OF 11 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1976:69246 HCAPLUS

DOCUMENT NUMBER: 84:69246

TITLE: Carboxyarylindoles as nonsteroidal antiinflammatory agents

AUTHOR(S): Anderson, V. Brian; Agnew, Marc N.; Allen, Richard C.; Wilker, Jeffrey C.; Lassman, Howard B.; Novick, William J., Jr.

CORPORATE SOURCE: Chem. Res. Dep., Hoechst-Roussel Pharm. Inc., Somerville, N. J., USA

SOURCE: J. Med. Chem. (1976), 19(2), 318-25

CODEN: JMCMAR

DOCUMENT TYPE: Journal

LANGUAGE: English

GI For diagram(s), see printed CA Issue.

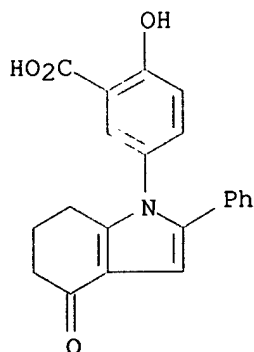
AB Of 52 title compds., prepd. by condensation of an .alpha.-halo ketone with an enamine and cyclic condensation of the resulting 1,4-diketone with an aniline deriv., 34 had significant antiinflammatory activity and 5, including 3-(3-carboxy-4-hydroxyphenyl)-2-phenyl-4,5-dihydro-3H-benz[e]indole (I) [53597-27-6], were comparable to aspirin [50-78-2] in the carrageenin rat paw edema assay. Structure-activity relations were discussed.

IT 57859-78-6P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. and inflammation inhibiting activity of)

RN 57859-78-6 HCAPLUS

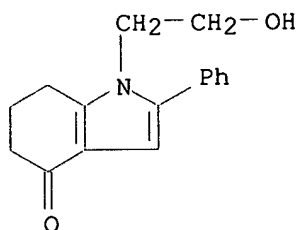
CN Benzoic acid, 2-hydroxy-5-(4,5,6,7-tetrahydro-4-oxo-2-phenyl-1H-indol-1-yl)- (9CI) (CA INDEX NAME)



L17 ANSWER 9 OF 11 HCAPLUS COPYRIGHT 2002 ACS

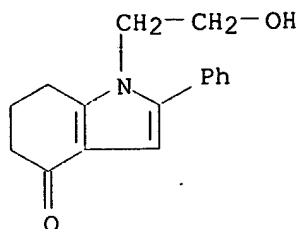
ACCESSION NUMBER: 1974:70733 HCAPLUS

DOCUMENT NUMBER: 80:70733
 TITLE: Reactivity of 4-oxo-4,5,6,7-tetrahydrobenzofurans.
 IV. Formation of 4,5-dihydropyrro[2,3-c]acridine
 derivatives. Laboratory note
 AUTHOR(S): Takagi, Kaname; Kobayashi, Noriaki; Ueda, Takeo
 CORPORATE SOURCE: Fac. Pharm., Univ. Kitasato, Tokyo, Japan
 SOURCE: Bull. Soc. Chim. Fr. (1973), (9-10, Pt. 2), 2807-9
 CODEN: BSCFAS
 DOCUMENT TYPE: Journal
 LANGUAGE: French
 GI For diagram(s), see printed CA Issue.
 AB The pyrroloacridines I (R = H, Me, Et, CH₂CH₂OH, Ph, 2-naphthyl,
 C₆H₄OMe-p; R₁ = Me, Ph) were prepd. by cyclizing 2-benzoylmethyl-4,5-
 dihydroresorcinol with RNH₂ to give the indolones II (X = O), which were
 reduced with N₂H₄ to II (X = H₂) and cyclized with o-R₁COC₆H₄NH₂.
 IT **39991-82-7P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 39991-82-7 HCAPLUS
 CN 4H-Indol-4-one, 1,5,6,7-tetrahydro-1-(2-hydroxyethyl)-2-phenyl- (9CI) (CA
 INDEX NAME)



L17 ANSWER 10 OF 11 HCAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1973:71906 HCAPLUS
 DOCUMENT NUMBER: 78:71906
 TITLE: Substituted 2-phenyl-4,5,6,7-tetrahydroindoles
 INVENTOR(S): Luecke, Bernhard; Lehman, Gerhard
 SOURCE: Ger. (East), 3 pp.
 CODEN: GEXXA8
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---|------|----------|-----------------|----------|
| | DD 86826 | | 19720105 | DD 1970-145212 | 19700130 |
| GI | For diagram(s), see printed CA Issue. | | | | |
| AB | Tetrahydroindolones I (R = H, OH; R ₁ = H, OMe) were prepd. in 52-84% yield by treating the corresponding 2-phenacyl-1,3-cyclohexanedione with RCH ₂ CH ₂ NH ₂ . I (R = OH, R ₁ = H) was reduced with NaBH ₄ to give 78% of the 4-hydroxy deriv. | | | | |
| IT | 39991-82-7P RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of) | | | | |
| RN | 39991-82-7 HCAPLUS | | | | |
| CN | 4H-Indol-4-one, 1,5,6,7-tetrahydro-1-(2-hydroxyethyl)-2-phenyl- (9CI) (CA INDEX NAME) | | | | |



L17 ANSWER 11 OF 11 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1972:434240 HCAPLUS

DOCUMENT NUMBER: 77:34240

TITLE: Reaction of pyrrole ketones with formaldehyde.
Formation of N-pyrrolemethanols

AUTHOR(S): Berger, Joel G.; Schoen, Karl

CORPORATE SOURCE: Endo Lab., Inc., Garden City, N. Y., USA

SOURCE: J. Heterocycl. Chem. (1972), 9(2), 419-21

CODEN: JHTCAD

DOCUMENT TYPE: Journal

LANGUAGE: English

GI For diagram(s), see printed CA Issue.

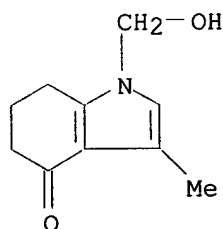
AB N-Pyrrolemethanols are prepd. by heating 3-acylpyrroles with formaldehyde in the presence of NaOH. 3-Acetyl-2,5-dimethylpyrrole (I) is converted to the corresponding N-pyrrolemethanol (II), while 2,3-disubstituted 4-oxo-4,5,6,7-tetrahydroindole-1-methanols (III) are obtained from the corresponding indoles (IV). 3 III, which can contain a 2-Me and a 3-Me or 3-Et group are prepd. Similarly prepd. is 2-ethyl-3-methyl-6-oxo-4,5-dihydro-6H - cyclopenta[b]pyrrole - 1-methanol.

IT 36764-23-5P 36784-83-5P 36827-21-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

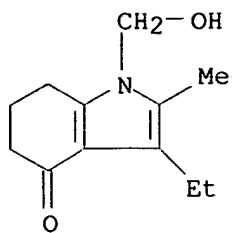
RN 36764-23-5 HCAPLUS

CN 4H-Indol-4-one, 1,5,6,7-tetrahydro-1-(hydroxymethyl)-3-methyl- (9CI) (CA INDEX NAME)

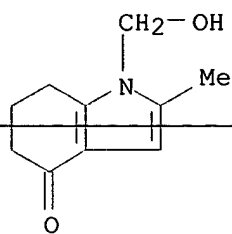


RN 36784-83-5 HCAPLUS

CN 4H-Indol-4-one, 3-ethyl-1,5,6,7-tetrahydro-1-(hydroxymethyl)-2-methyl- (9CI) (CA INDEX NAME)



RN 36827-21-1 HCAPLUS

CN 4H-Indol-4-one, 1,5,6,7-tetrahydro-1-(hydroxymethyl)-2-methyl- (9CI) (CA
INDEX NAME)

=> d ibib abs hitstr

L18 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:762968 HCAPLUS

DOCUMENT NUMBER: 135:304105

TITLE: Preparation of nucleosides and isoindolinone derivatives as anti-inflammatory agents

INVENTOR(S): Japtap, Prakash; Southan, Garry; Salzman, Andrew; Szabo, Csaba; Ram, Siya

PATENT ASSIGNEE(S): Inotek Corporation, USA

SOURCE: PCT Int. Appl., 45 pp.

CODEN: PIXXD2

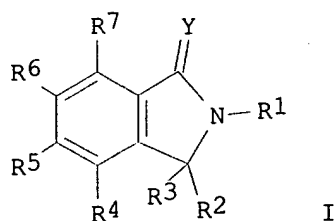
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-------------------|-------------|
| WO 2001077075 | A2 | 20011018 | WO 2001-US11288 | 20010406 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| PRIORITY APPLN. INFO.: | | | US 2000-195622 | P 20000406 |
| | | | US 2001-766053 | A2 20010119 |
| OTHER SOURCE(S): | | | MARPAT 135:304105 | |
| GI | | | | |



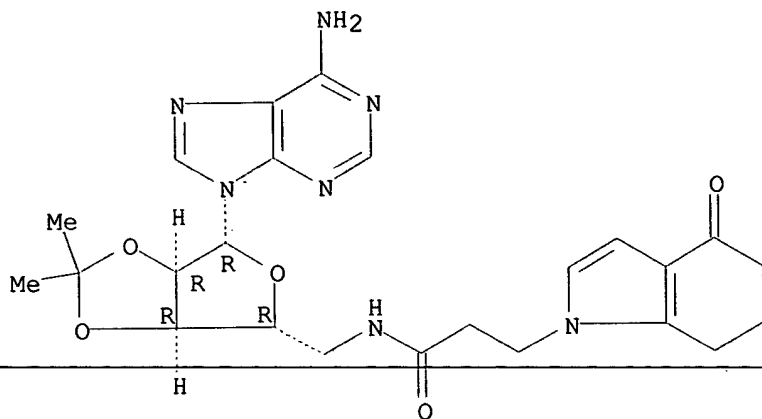
AB Substituted nucleosides and isoindolinone derivs. I wherein Y is O, OH, S, Se, NH, N-alkyl, N-aryl; R1 is H, OH, aryl, alkyl, amino acid; R2 and R3 are independently H, alkyl, aryl, heterocycle, OH, O-alkyl, O-aryl, N-alkyl, N-aryl, taken together O, NH, S; R4-R7 are independently H, halo, alkyl-halo, OH, alkoxy, alkyl, alkenyl, carbocyclic, aryl, amino, carboxy, ester, arylalkyl, nitro; R3R4 are heterocyclic, carbocyclic ring; were prepd. as anti-inflammatory agents. Thus, isoindolinone I (Y = O, R1-R3 = R5-R7 = H, R4 = NO2) was prepd. and tested in vitro for its anti-inflammatory activity (% inhibition = 12 .mu.M).

IT 366454-42-4P 366454-43-5P 366454-45-7P

RL: BAC (Biological activity or effector, except adverse); IMF (Industrial manufacture); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of nucleosides and isoindolinone derivs. as anti-inflammatory

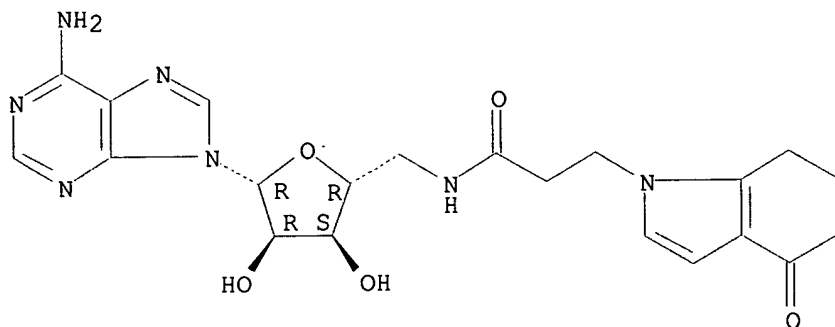
agents)
 RN 366454-42-4 HCAPLUS
 CN Adenosine, 5'-deoxy-2',3'-O-(1-methylethylidene)-5'-[[1-oxo-3-(4,5,6,7-tetrahydro-4-oxo-1H-indol-1-yl)propyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

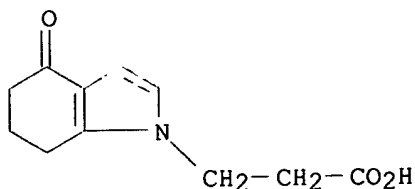


RN 366454-43-5 HCAPLUS
 CN Adenosine, 5'-deoxy-5'-[[1-oxo-3-(4,5,6,7-tetrahydro-4-oxo-1H-indol-1-yl)propyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 366454-45-7 HCAPLUS
 CN 1H-Indole-1-propanoic acid, 4,5,6,7-tetrahydro-4-oxo- (9CI) (CA INDEX NAME)



=> d ibib abs hitstr 2

L18 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:878646 HCAPLUS

DOCUMENT NUMBER: 134:178428

TITLE: Synthesis of 4,5,6,7-tetrahydroindole derivatives

AUTHOR(S): Zav'yalov, S. I.; Dorofeeva, O. V.; Rumyantseva, E. E.; Kulikova, L. B.; Ezhova, G. I.; Kravchenko, N. E.; Zavozin, A. G.

CORPORATE SOURCE: Zelinsky Institute of Organic Chemistry, Russian Academy of Sciences, Moscow, Russia

SOURCE: Pharm. Chem. J. (2000), 34(3), 130-131

CODEN: PCJOAU; ISSN: 0091-150X

PUBLISHER: Consultants Bureau

DOCUMENT TYPE: Journal

LANGUAGE: English

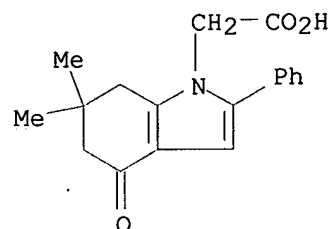
AB The condensation of 3-hydroxy-5,5-dimethyl-2-(2-oxo-2-phenylethyl)-2-cyclohexen-1-one with glycine gave 4,5,6,7-tetrahydro-6,6-dimethyl-4-oxo-2-phenyl-1H-indole-1-acetic acid. The condensation of the same starting material with 4-aminobenzenesulfonamide gave (4,5,6,7-tetrahydro-6,6-dimethyl-4-oxo-2-phenyl-1H-indol-1-yl)benzenesulfonamide. The cyclocondensation of glycine with phthalic acid gave N-(phthaloyl)glycine.

IT 121626-22-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of 4,5,6,7-tetrahydro-4-oxoindole derivs.)

RN 121626-22-0 HCAPLUS

CN 1H-Indole-1-acetic acid, 4,5,6,7-tetrahydro-6,6-dimethyl-4-oxo-2-phenyl-
(9CI) (CA INDEX NAME)

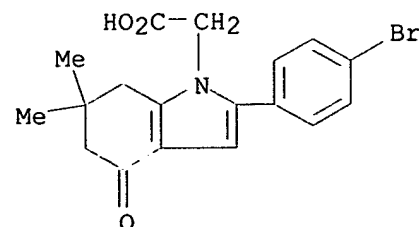


IT 326809-42-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of 4,5,6,7-tetrahydro-4-oxoindole derivs.)

RN 326809-42-1 HCAPLUS

CN 1H-Indole-1-acetic acid, 2-(4-bromophenyl)-4,5,6,7-tetrahydro-6,6-dimethyl-
4-oxo- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

6

REFERENCE(S):

- (1) Anon; 1995, 21, HCAPLUS
 - (2) Dagher, C; J Het Chem 1982, V19(3), P645 HCAPLUS
 - (3) Nagarajan, K; J Med Chem 1976, V19(4), P508
HCAPLUS
 - (5) Ramadas, S; Indian J Chem 1979, V17B(3), P195
HCAPLUS
 - (6) Zav'Yalov, S; Khim-Farm Zh 1998, V32(3), P41
HCAPLUS
- ALL CITATIONS AVAILABLE IN THE RE FORMAT
-

=> d ibib abs hitstr 3

L18 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1997:479331 HCAPLUS

DOCUMENT NUMBER: 127:99527

TITLE: Oxidative hair dye compositions containing
n-substituted 4-hydroxy indoline derivatives

INVENTOR(S): Terranova, Eric; Fadli, Aziz; Lagrange, Alain

PATENT ASSIGNEE(S): Oreal S. A., Fr.

SOURCE: Eur. Pat. Appl., 19 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-------------------|----------|
| EP 780118 | A1 | 19970625 | EP 1996-402297 | 19961029 |
| EP 780118 | B1 | 19971229 | | |
| R: DE, ES, FR, GB, IT | | | | |
| FR 2742047 | A1 | 19970613 | FR 1995-14372 | 19951206 |
| FR 2742047 | B1 | 19980116 | | |
| CN 1189820 | A | 19980805 | CN 1996-195180 | 19960626 |
| ES 2113769 | T3 | 19980501 | ES 1996-402297 | 19961029 |
| JP 09183716 | A2 | 19970715 | JP 1996-325758 | 19961205 |
| JP 2996625 | B2 | 20000111 | | |
| US 5755829 | A | 19980526 | US 1996-761756 | 19961205 |
| US 6002018 | A | 19991214 | US 1998-14622 | 19980128 |
| PRIORITY APPLN. INFO.: | | | FR 1995-14372 A | 19951206 |
| | | | US 1996-761756 A3 | 19961205 |

OTHER SOURCE(S): MARPAT 127:99527

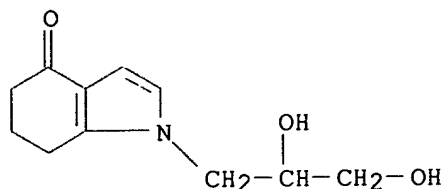
AB Oxidative hair dye comps. contain n-substituted 4-hydroxy indoline derivs. (Markush structure given). A soln. of 8.85 g 4-hydroxy-1-N-(.beta.-hydroxyethyl)indole (prepn. given) in 40 mL of acetic acid was stirred with 1.9 g of sodium cyanoborohydride at 30.degree. for 30 min, then the reaction mixt. was poured into 200 g water at pH = 7.5 and the ppt. thus obtained was filtered and dried to obtain 7.75 g 4-hydroxy-1-N-(.beta.-hydroxyethyl)indoline (I). A hair dye prep. contained I 0.895, paraphenylenediamine 0.540, water and excipient q.s. 100 g. The hair dye prep. is mixed with equal amt. of 20 vol. hydrogen peroxide and applied to the hair.

IT 186963-75-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(oxidative hair dye comps. contg. n-substituted 4-hydroxy indoline derivs.)

RN 186963-75-7 HCAPLUS

CN 4H-Indol-4-one, 1-(2,3-dihydroxypropyl)-1,5,6,7-tetrahydro- (9CI) (CA
INDEX NAME)



=> d ibib abs hitstr 4

L18 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1997:168570 HCAPLUS

DOCUMENT NUMBER: 126:185981

TITLE: Preparation of N-hydroxyalkyl-4-hydroxyindoles as oxidative hair dye components

INVENTOR(S): Terranova, Eric; Fadli, Aziz; Lagrange, Alain

PATENT ASSIGNEE(S): L'Oreal S. A., Fr.

SOURCE: Eur. Pat. Appl., 20 pp.

CODEN: EPXXDW

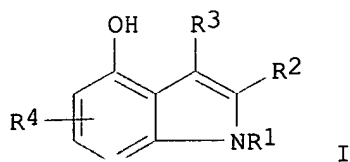
DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|-------------------|-----------------|-------------|
| EP 754681 | A1 | 19970122 | EP 1996-401413 | 19960626 |
| EP 754681 | B1 | 19980304 | | |
| R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE | | | | |
| FR 2736640 | A1 | 19970117 | FR 1995-8566 | 19950713 |
| FR 2736640 | B1 | 19970822 | | |
| CA 2222312 | AA | 19970130 | CA 1996-2222312 | 19960626 |
| WO 9703049 | A1 | 19970130 | WO 1996-FR996 | 19960626 |
| W: BR, CA, CN, HU, JP, KR, MX, PL, RU | | | | |
| AT 163640 | E | 19980315 | AT 1996-401413 | 19960626 |
| ES 2117474 | T3 | 19980801 | ES 1996-401413 | 19960626 |
| JP 10512282 | T2 | 19981124 | JP 1996-505543 | 19960626 |
| BR 9609329 | A | 19990525 | BR 1996-9329 | 19960626 |
| JP 3095419 | B2 | 20001003 | JP 1997-505543 | 19960626 |
| US 5704948 | A | 19980106 | US 1996-678981 | 19960712 |
| US 5869692 | A | 19990209 | US 1997-932468 | 19970918 |
| PRIORITY APPLN. INFO.: | | | FR 1995-8566 | A 19950713 |
| | | | WO 1996-FR996 | W 19960626 |
| | | | US 1996-678981 | A3 19960712 |
| OTHER SOURCE(S): | | MARPAT 126:185981 | | |
| GI | | | | |



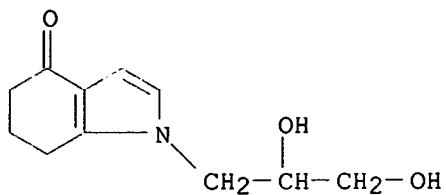
AB Title compds. (I; R1 = hydroxyalkyl, alkoxyalkyl, aminoalkyl, etc.; R2,R3 = H, halo, alkyl, CO2H, alkoxyalkyl, CHO; R4 = H, halo, alkyl, alkoxy, etc.) were prepd. Thus, 4-oxo-4,5,6,7-tetrahydrobenzofuran was cyclocondensed with H2NCH2CH2OH and the product dehydrogenated to give I (R1 = CH2CH2OH, R2-R4 = H). Data for activity of I were given.

IT 186963-75-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of N-hydroxyalkyl-4-hydroxyindoles as oxidative hair dye components)

RN 186963-75-7 HCAPLUS

CN 4H-Indol-4-one, 1-(2,3-dihydroxypropyl)-1,5,6,7-tetrahydro- (9CI) (CA
INDEX NAME)



=> d ibib abs hitstr 5

L18 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1989:457475 HCAPLUS

DOCUMENT NUMBER: 111:57475

TITLE: Synthesis and oral hypoglycemic properties of

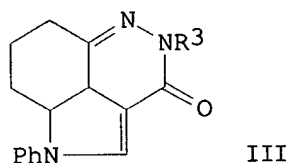
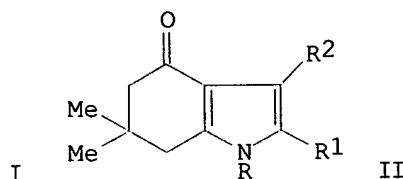
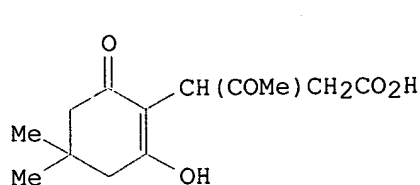
4-oxo-4,5,6,7-tetrahydroindole-3-acetic acids
AUTHOR(S): Nagarajan, Kuppuswamy; Talwalker, Purnachand K.; Goud,
A. Nagana; Shah, Rashmi K.; Shenoy, Sharada J.; Desai,
Narasimha D.CORPORATE SOURCE: Res. Cent., Hindustan Ciba-Geigy Ltd., Bombay, 400
063, IndiaSOURCE: Indian J. Chem., Sect. B (1988), 27B(12), 1113-23
CODEN: IJSBDB; ISSN: 0376-4699

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 111:57475

GI



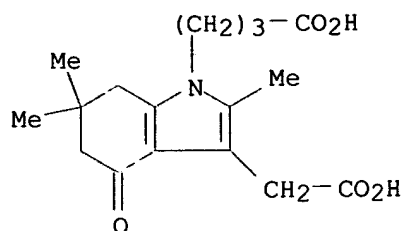
AB Condensation of .beta.-acetyl-2-hydroxy-4,4-dimethyl-6-oxo-1-cyclohexene-1-propionic acid (I) with NH₄OAc and primary amines affords tetrahydroindole-3-acetic acids II (R = alkyl, aryl, aralkyl; R₁ = Me, R₂ = CH₂CO₂H), while another dimerone deriv. serves as starting material for isomeric indole-2-acetic acids II (R = alkyl, R₁ = CH₂CO₂H, R₂ = H). 4-Oxotetrahydroindole-2-carboxylic acids II (R = Ph, CH₂CHMe₂, R₁ = CO₂H, R₂ = Me) and 3-carboxylic acids II (R = Ph, 4-FC₆H₄, R₁ = H, R₂ = CO₂H), are obtained from the corresponding benzofurans. Some of the 3-carboxylic acid esters are transformed to tricyclic compds. like III [R₃ = H, Me₂N(CH₂)₃, Et₂NCH₂CH₂]. Good oral hypoglycemic activity in normal rats is shown generally by the 3-acetic acids, among which C 8778-GO and C 9001-GO (II, R = Bu, CH₂CHMe₂, R₁ = Me, R₂ = CH₂CO₂H) are most active. These two acids are also active in streptozotocin-induced diabetic rats and have been investigated extensively. Structure-activity relationships are discussed.

IT 121625-91-0P 121626-21-9P 121626-22-0P
121626-23-1P 121626-54-8P

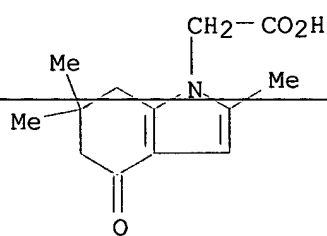
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and hypoglycemic activity of)

RN 121625-91-0 HCAPLUS

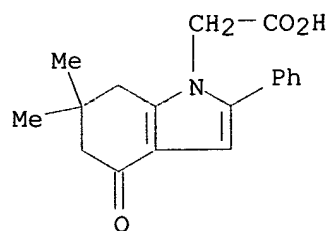
CN 1H-Indole-1-butanoic acid, 3-(carboxymethyl)-4,5,6,7-tetrahydro-2,6,6-trimethyl-4-oxo- (9CI) (CA INDEX NAME)



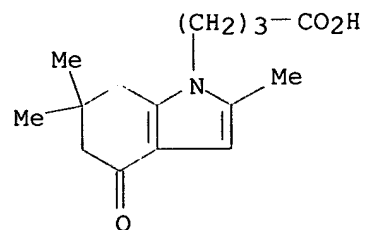
RN 121626-21-9 HCAPLUS
 CN 1H-Indole-1-acetic acid, 4,5,6,7-tetrahydro-2,6,6-trimethyl-4-oxo- (9CI)
 (CA INDEX NAME)



RN 121626-22-0 HCAPLUS
 CN 1H-Indole-1-acetic acid, 4,5,6,7-tetrahydro-6,6-dimethyl-4-oxo-2-phenyl-
 (9CI) (CA INDEX NAME)



RN 121626-23-1 HCAPLUS
 CN 1H-Indole-1-butanoic acid, 4,5,6,7-tetrahydro-2,6,6-trimethyl-4-oxo- (9CI)
 (CA INDEX NAME)



RN 121626-54-8 HCAPLUS
 CN 1H-Indole-1-butanoic acid, 2-(carboxymethyl)-4,5,6,7-tetrahydro-6,6-
 dimethyl-4-oxo- (9CI) (CA INDEX NAME)

